

Product datasheet for **MG210215**

Capn1 (NM_007600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn1 (NM_007600) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capn1
Synonyms:	Capa-1; Capa1; mu-calpin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG210215 representing NM_007600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGACAGAGGAGTTAATCACCCCTGTGTACTGCACCGGGGTGTCAGCCCAAGTACAGAAGAAGCGGGACA
 AGGAGCTGGGCTTGGGCCGCCATGAAAACGCCATCAAGTACCTGGGCCAGGATTATGAAAACGCTTCGGGC
 AAGATGCCTGCAGAGTGGGGTCTCTTCCAAGACGAGGCCTTCCCTCCGGTTTTCATAGCCTGGGCTTC
 AAGAACTGGGTCTCATTCTCTAAAACCTATGGCATCAAATGGAAGCGGCCTACGGAAGTATGTCAA
 ACCCCCAGTTCATCGTGGATGGAGCCACCCGGACAGACATCTGCCAGGGAGCACTGGGGACTGTTGGCT
 CCTGGCTGCCATTGCCTCCCTCACCTCAACGAGACTATTCTGCACCGAGTGGTTCCTACGGCCAGAGC
 TTTCAGGATGGCTACGCTGGCATCTTTCAATTCAGCTGTGGCAGTTCGGGGAGTGGGTCGACGTGGTCA
 TAGATGACTTGTGCCACCAAGGACGGGAAGCTGGTGTTCGTGCACTCTGCCAGGGCAACGAGTCTG
 GAGCGCACTGCTGGAGAAAGCCTATGCTAAAGTGAATGGCAGCTATGAGGCTCTTTCGGGAGGCTGCACC
 TCAGAGGCCTTCGAGGACTTTACCGGTGGGGTCACTGAGTGGTACGACCTGCAGAAGGCCCCAGCGACC
 TCTACCAGATCATTCTAAAGGCCCTGGAACGAGGCTCCTTGTGGGCTGTCCATTAATATCTCCGATAT
 CCGTGATTTAGAGGCTATTACTTTAAGAACCTGGTGAGGGGCCATGCGTACTCTGTGACGGGCGCCAAG
 CAGGTAACCTACCAGGGCCAGCGGGTGAACCTAATCCGGATGCGGAACCCCTGGGGTGAAGTGGAGTGGAA
 AAGGACCTGGAGTGACAGCTCCTATGAGTGGAAACAAAGTGGACCCCTATGAACGAGAGCAGCTGAGGGT
 CAAGATGGAGGATGGGGAGTTCGGATGTCGTTCCGAGACTTCATCCGTGAATTCACCAAAGTGGAAATC
 TGCAACCTTACACCGGACGCCCTAAGAGCAGGACCCCTCCGGAATTGGAATACCACATTTTACGAGGGCA
 CCTGGCGTGGGGAAGCACCGCTGGAGGCTGCAGGAACCTACCCAGTACCTTCTGGGTAACCCCCAGTTC
 CAAGATCCGGTTGGAGGAGGTGGATGACGCAGACGACTATGACAACCCGGGAGTCCGGCTGCAGTCTTGT
 CTGGCCCTCATGCAGAAACCCGCCGAGGAGCGTTCGTTTGGCCGGGACATGGAGACCATCGGTTTTG
 CAGTGTACCAGGTCCTCGGGAGCTGGCGGGTCAAGCTGTGCACTTGAAGCGTGATTTCTTCTGGCCAA
 CGCTTCTCGGGCGCAGTCAGAGCACTTCATCAACCTTCGGGAAGTCAGCAACCGTATCCGCCTGCCGCC
 GGGGAGTACATAGTGGTGCCTCCACCTTCGAGCCCAACAAGAAGGCGACTTCTGTGCGCTTCTTCT
 CAGAGAAGAAGGCTGGGACCCAGGAAGTATGACCAGATCCAGGCCAACCTCCCTGATGAGAAAGTCTCT
 CTCTGAAGAGGAGATTGATGACAACCTCAAGACCTTGTTCAGCAAGTGGCAGGGGATGACATGGAGATC
 AGCGTCAAGGAGCTACAGACCATCTTGAACAGGATCATTAGCAAACACAAGACCTGCGCACTAATGGCT
 TCAGCCTGGAGTCGTGCCGAGCATGGTGAACCTCATGGATCGAGATGGCAACGGGAAGCTGGGTCTGGT
 GGAGTTCAACATCCTGTGGAACCGCATCCGAAATTACCTGACCATCTCCGGAAGTTTGACCTGGACAAG
 TCTGGCAGCATGAGTGCCTATGAGATGAGGATGGCCATCGAGGCTGCAGGCTTCAAGCTTAAACAAGAAGC
 TGCATGAACCTATAATCACCCGCTACTCGGAGCCCGACCTGGCCGTGGACTTTGACAACCTTGTGTGCTG
 TCTTGTGCGGCTGGAGACCATGTTCCGGTTTTTCAAACCTCTGGACACAGACCTGGATGGTGTGTGACC
 TTTGATCTATTTAAGTGGCTCCAGCTGACTATGTTTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210215 representing NM_007600
 Red=Cloning site Green=Tags(s)

MTEELITPVYCTGVSAQVQKKRDKELGLGRHENAIKYLGDYETLRARCLQSGVLFQDEAFPPVSHSLGF
 KELGPHSSKTYGIKWKRPTELMSPQFIVDGATRTDQCQALGDCWLLAAIASLTLNETILHRVVPYQGS
 FQDGYAGIFHFQLWQFGEWVDVVIDDLPTKDGKLVFVHSAQGNFWSALLEKAYAKVNGSYEALSGGCT
 SEAFEDFTGGVTEWYDLQKAPSDLYQIILKALERGSLLGCSINISDIRDLEAITFKNLVRGHAYSVTGAK
 QVTYQGGQVNLIRMRNPWGEVEWKGWSDSSYEWNKVDPYEREQLRVKMEDGEFWMFRDFIREFTKLEI
 CNLTPDALKSRTLNRNNTTFYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLEEVDADDYDNRESGCSFL
 LALMQKHRRRRFRGRDMETIGFAVYQVPRELAGQPVHLKRDFFLANASRAQSEHFINLREVSNRIRLPP
 GEYIVVPSTFEPNKEGDFLLRFFSEKKAGTQELDDQIQANLPDEKVLSEEEIDDNFKTLFSKLAGDDMEI
 SVKELQTIILNRIISKHKDLRTNGFSLESCRMVNLMDRDGNGKLGLEFVNILWNRIRNYLTIFRKFDLDK
 SGMSAYEMRMAIEAAGFKLNKKLHELII TRYSEPLAVDFDNFVCLVRL ETMFRFFKLLD TDL DGVVT
 FDLFKWLQLTMFA

TRTRPLE - GFP Tag - V

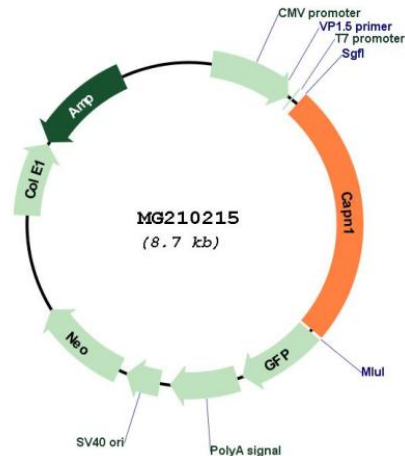
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_007600

ORF Size: 2139 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_007600.2](#), [NP_031626.1](#)

RefSeq Size: 3119 bp

RefSeq ORF: 2142 bp

Locus ID: 12333

UniProt ID: [O35350](#)

Cytogenetics: 19 4.34 cM

Gene Summary: Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction.[UniProtKB/Swiss-Prot Function]